

REGION: 04
STATE : TN

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L I S V 1.2

PAGE: 68
RUN DATE: 05/18/87
RUN TIME: 14:04:07

M.2 - SITE MAINTENANCE FORM

#27599

EPA ID : TND980558548		* ACTION: _
SITE NAME: BEASLEY GRADY WHEELER PROP DUMP	SOURCE: N	* _
STREET : 3207 ALTON PARK BLVD	CONG DIST: 03	* _
CITY : CHATTANOOGA	ZIP: 37410	* _
CNTY NAME: HAMILTON	CNTY CODE : 065	* _
LATITUDE : 35/00/06.0	LONGITUDE : 085/19/30.0	* _/_/_.
LL-SOURCE: R	LL-ACCURACY:	* _
SMSA : 1560	HYDRO UNIT: 06020001	* _
INVENTORY IND: Y	REMEDIAL IND: Y	* _
REMOVAL IND: N	FED FAC IND: N	* _
NPL IND: N	NPL LISTING DATE:	* _/_/_
NPL DELISTING DATE:		* _/_/_
SITE/SPILL IDS:		* _ _ _ _
RPM NAME:	RPM PHONE: - -	* _
SITE CLASSIFICATION:	SITE APPROACH:	* _
DIOXIN TIER:	REG FLD1:	* _
	REG FLD2:	* _
RESP TERM: PENDING ()	NO FURTHER ACTION ()	* PENDING ()
		* NO FURTHER ACTION ()
ENF DISP: NO VIABLE RESP PARTY ()	VOLUNTARY RESPONSE ()	* _
ENFORCED RESPONSE ()	COST RECOVERY ()	* _
SITE DESCRIPTION:		* _
		* _
		* _
		* _
		* _

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PAGE: 69
RUN DATE: 05/18/87
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M.2 - PROGRAM MAINTENANCE FORM

SITE: BEASLEY GRADY WHEELER PROP DUMP

EPA ID: TND980558548 PROGRAM CODE: H01 PROGRAM TYPE:

PROGRAM QUALIFIER: ALIAS LINK :

PROGRAM NAME: SITE EVALUATION

DESCRIPTION:

* ACTION: _

* _ *

* _ *

* _ *

* _ *

* _ *

* _ *

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OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L I S V 1.2

PAGE: 70
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M.2 - EVENT MAINTENANCE FORM

SITE: BEASLEY GRADY WHEELER PROP DUMP
PROGRAM: SITE EVALUATION

EPA ID: TND980558548 PROGRAM CODE: H01

EVENT TYPE: DS1

FMS CODE: EVENT QUALIFIER :

EVENT LEAD: E

EVENT NAME: DISCOVERY

STATUS:

DESCRIPTION:

* ACTION: _

* _ _ _ _ _ *

* _ _ _ _ _ *

* _ _ _ _ _ *

* _ _ _ _ _ *

* _ _ _ _ _ *

* _ _ _ _ _ *

ORIGINAL

CURRENT

ACTUAL

START:

START:

START:

* _/_/_/ _/_/_/ _/_/_/ *

COMP :

COMP :

COMP : 06/01/81

* _/_/_/ _/_/_/ _/_/_/ *

HQ COMMENT:

* _ _ _ _ _ *

RG COMMENT:

* _ _ _ _ _ *

COOP AGR #

AMENDMENT #

STATUS

STATE %

0

* _ _ _ _ _ *

REGION: 04
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U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L I S V 1.2

PAGE: 71
RUN DATE: 05/18/87
RUN TIME: 14:04:07

M.2 - EVENT MAINTENANCE FORM

* ACTION: _

SITE: BEASLEY GRADY WHEELER PROP DUMP
PROGRAM: SITE EVALUATION

EPA ID: TND980558548 PROGRAM CODE: H01

EVENT TYPE: PA1

FMS CODE: EVENT QUALIFIER :

EVENT LEAD:

EVENT NAME: PRELIMINARY ASSESSMENT

STATUS:

DESCRIPTION:

* _____ *

* _____ *

* _____ *

* _____ *

ORIGINAL	CURRENT	ACTUAL
START:	START:	START: 01/01/84
COMP :	COMP :	COMP : 01/01/84

* __/__/__ __/__/__ __/__/__ *

* __/__/__ __/__/__ __/__/__ *

HQ COMMENT:

* _____ *

* _____ *

RG COMMENT:

COOP AGR #	AMENDMENT #	STATUS	STATE %
			0

* _____ *

REGION: 04
STATE : TN

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L I S V 1.2

PAGE: 72
RUN DATE: 05/18/87
RUN TIME: 14:04:07

M.2 - EVENT MAINTENANCE FORM

* ACTION:

SITE: BEASLEY GRADY WHEELER PROP DUMP
PROGRAM: SITE EVALUATION

EPA ID: TND980558548 PROGRAM CODE: H01

EVENT TYPE: SI1

FMS CODE: EVENT QUALIFIER :

EVENT LEAD: E

EVENT NAME: SITE INSPECTION

STATUS:

DESCRIPTION:

★ _____

★ _____

★ _____

★ _____

ORIGINAL

CURRENT

ACTUAL

START:

START:

START: 07/01/83

★ / / / / / / :

COMP :

COMP :

COMP : 11/01/83

* / / / / / /

HQ COMMENT:

RG COMMENT:

★ _____

COOP AGR #

AMENDMENT #

STATUS

STATE X

Q

青

REGION: 04
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U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L I S V 1.2

PAGE: 73
RUN DATE: 05/18/87
RUN TIME: 14:04:07

M.2 - COMMENT MAINTENANCE FORM

SITE: BEASLEY GRADY WHEELER PROP DUMP

EPA ID: TND980558548

COM NO	COMMENT
-----------	---------

ACTION

001 TNS000001112-SUBJECT SITE WAS PRIMA

★

RILY LEASED FOR WASTE SAND DISPOSAL

★

002 VERY LITTLE, IF ANY, CUPOLA SCRUBBE

✱

R SLUDGE WAS DISPOSED OF IN THE

★

003 SITE. SINCE THEN THE CUPOLA SCRUBBE

★

R HAS BEEN REPLACED WITH A BAG-

✱

004 HOUSE EMISSION CONTROL SYSTEM AND T

★

HE DUST WHICH IS BEING GENERATED IS

✱

005 BEING DISPOSED OF AT AN EPA APPROVE

★

D LDFL. 1977 TO 1979. CONTACT:

★

006 MICHAEL MCCULLOCH ENV. ENGR. 615-26

★

6-3623 EXT 274.

★

007 PREVIOUS P.A. 83/01.

✱

008 PREVIOUS P.A OF 83/01.

★

★

717 SIs

6/27/84

Site name	CPA ID#	Why on ECRIS Notes	Dist ⁺	Priority
✓ Col. Maj. Septic Tank Service	TND980438543	Notis	y	HIGH
✓ AC 1/SPDL Landfills - Sewer Plant	TND980558597	Notis	y	medium
✓ E. Du Pont De Nemours & Co. Inc.	TND647661979	HWDUS	y	med
✓ Southern Industrial Maintenance Co.	TND980559091	Notis	y	med.
✓ Alcoa, Powder + Pigment Landfills	TND980558589	Notis	y	Low
✓ L. O. Bandy Landfill	TND980558415	Notis	y	HIGH
✓ Co. 10th Pike Landfill	TND980573188	S	y	med.
✓ Potomac Landfill	TND980559066	N	y	High
✓ Ideal Basics Ind.	TND066723081	N	y	med.
<div> <div>Total</div> <div>9</div> <div>SIs</div> </div>				
✓ J. J. Gentry, Grady, Wheeler Property Dump	TND980558545	N	y	med.
✓ Northern Wood Piedmont	TND003327400	H	y	HIGH med
✓ Chattanooga Coke + Chem. Site	TND071516959	N	y	med low



NORTH LAKE SQUARE OFFICE PARK
726 MONTREAL CIRCLE
SUITE 20
DICKER, GEORGIA 30084
(404) 938-7710

CONFIDENTIAL

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ENFORCEMENT LITIGATION. IT IS NOT SUBJECT TO DISCOVERY.

May 21, 1984
C-586-5-4-49

Mr. R. D. Stonebraker, Deputy Chief
Emergency and Remedial Response Branch
Air and Waste Management Division
Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Subject: Tennessee Site Inspection Reports
TDD F4-8303-06

Dear Mr. Stonebraker:

Attached are two copies of each of the following draft site inspection reports.

- o Southern Wood Piedmont
Chattanooga, Tennessee
- o Chattanooga Coke & Chemical Co.
Chattanooga, Tennessee
- o Beasley, Grady, Wheeler Property Dump
Chattanooga, Tennessee

The following are conclusions and recommendations concerning each of these sites:

Southern Wood Piedmont, Chattanooga, Tennessee

Available data indicate that this site warrants a medium to high priority for a future site investigation. A site screening study plan has already been prepared for this site by FIT. The study was scheduled for June 4, 1984, however, it was recently cancelled at the request of the State due to their on-going enforcement action against the owners/operators.

Chattanooga Coke & Chemical Co., Chattanooga, Tennessee

The results of the site inspection at Chattanooga Coke & Chemical Company were inconclusive due to lack of and ambiguity of information available from the current site owners and in the State and EPA files. Apparently, the current site owner has no knowledge of the previous owners disposal sites/activities. The disposal areas reported under CERCLA were not identifiable by visual inspection. A much more extensive historical investigation will be needed to proceed at this site. This effort could be more effectively conducted by the State under the RCRA 3012 program.

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ENFORCEMENT LITIGATION. IT IS NOT SUBJECT TO DISCOVERY.

Mr. R. D. Stonebraker, Deputy Chief
Environmental Protection Agency
May 21, 1984 - Page Two

Beasley, Grady, Wheeler Property Dump, Chattanooga, Tennessee

Results of the site inspection indicate that this site warrants a medium priority for a future site investigation. The site consists of two former surface impoundments that have been filled capped and graded and a disposal area that is currently being utilized by Wheeland Foundry for disposal of foundry sand and slag. Rockwell International, the past site operator, conducted RCRA EP toxicity tests on core samples taken from the two former surface impoundments. The results of analysis indicated that the samples were not hazardous based on RCRA standards. No data are available on the nature of the wastes disposed of in the Wheeland dump.

The waste of concern which may have been disposed of on site is cupola scrubber sludge. Rockwell reported the suspected disposal of the sludge from 1977-1979 in an area encompassing disposal areas 2 and 3, as indicated in the attached site inspection report. The cupola scrubber was replaced with a baghouse emission control system in 1981. The dust collected by the baghouse filter was subjected to RCRA EP testing and found to be hazardous and therefore, it is currently being disposed of off site by Chemical Waste Management, Emelle, Alabama. The presence of potentially hazardous cupola scrubber sludge has not been verified. The suspected disposal area lies on a small branch of Chattanooga Creek.

At a minimum the following samples are recommended for inclusion in any future site investigation work:

- o upstream and downstream samples on Chattanooga Creek
- o core samples from in and around disposal area number 3

It would be desirable to install temporary well points between the disposal area and Chattanooga Creek to intercept leachate that may be migrating off-site, if hazardous wastes are found in the initial screening samples.

If you have any questions do not hesitate to call.

Yours truly
NUS Corporation



Mary Leslie, M.S.
Environmental Scientist

ML/lr

D-586-2-3-37

**SITE INSPECTION REPORT
BEASLEY, GRADY, WHEELER
PROPERTY DUMP
CHATTANOOGA, TENNESSEE**

TDD NO. F4-8303-06
EPA CONTRACT NO. 68-01-6699

FOR THE
AIR AND WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

MAY 18, 1984

NUS CORPORATION
SUPERFUND DIVISION

Submitted By

Brad Wallace for
Brad Wallace
Environmental Scientist

Reviewed By

Mary Leslie for
Mary Leslie, M.S.
Preliminary Assessment Group Leader

Approved By

Murray Warner for
Murray Warner, P.E.
Regional Project Manager

SITE INSPECTION REPORT
BEASLEY, GRADY AND WHEELER DUMP
CHATTANOOGA, TENNESSEE
TND 980558464

A site inspection was conducted at the Beasley, Grady and Wheeler Dump site ("Old Rockwell Dump") on July 1, 1983 and on September 19, 1983. The inspection was conducted by Brad Wallace of NUS Corporation, Region IV Field Investigation Team (FIT) and included interviews with Mr. Phil Backlund (Manager, Energy and Environment Management, Rockwell International) and Mr. Gene Blair (Environmental Manager, Wheeland Foundry). The site inspection was conducted at the request of the U.S. Environmental Protection Agency (EPA), Air and Hazardous Materials Division, under Technical Direction Document (TDD) No. F4-8303-06. The inspection was conducted under the authority of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980.

Rockwell International operated a gray iron foundry in Chattanooga, Tennessee from the early 1960's until February of 1982, when the facility was closed. In June, 1981, to comply with notification of hazardous waste disposal sites required under CERCLA, Rockwell reported an area adjacent to the Chattanooga facility where by Rockwell officials suspected that cupola scrubber sludge had been disposed of from 1977 to 1979 (Beasley, Grady, Wheeler Property Dump. see Appendix A).

The Beasley, Grady and Wheeler Dump is located just east of Alton Park Boulevard in Chattanooga, Tennessee, between the Old Rockwell International Plant and Chattanooga Creek (see figure 1). The dump site consists of three areas of disposal activity (see figure 2). Areas #1 and #2 were formerly surface impoundments and are now filled, capped and graded. The integrity of the cap on each impoundment is unknown. At the time of inspection, Rockwell International owned the property in the vicinity of area's #1 and #2. The third disposal area (figure 2) consists of a landfill approximately ten acres in size. This area is currently owned by the Wheeland Foundry and is utilized by the Wheeland facility as a disposal area for foundry sand and slag.

According to Mr. Backlund of Rockwell International, since 1981 air emissions from the cupola have been controlled by a baghouse filter. Leachate tests of the

baghouse dust showed that it was in excess of the Extraction Procedure toxicity limits as defined by the Resource Conservation and Recovery Act (RCRA), and therefore, the Rockwell facility began contracting disposal of the dust through Chemical Waste Management in Emelle, Alabama.

In November of 1981, the Rockwell facility attempted to characterize the contents of the disposal area adjacent to the Rockwell Foundry (areas #1 and #2) by taking core samples at several locations and depths. These samples were subjected to the RCRA EP toxicity testing. The analysis, conducted by Resource Consultants, Incorporated, indicated that the samples were not hazardous based on RCRA standards for classifying hazardous wastes. Correspondence and analytical results for these tests are included in Appendix A.

Additional site inspection information is contained in the Site Inspection Report Form (EPA Form T2070-3), supporting tables and illustrations included in this report.

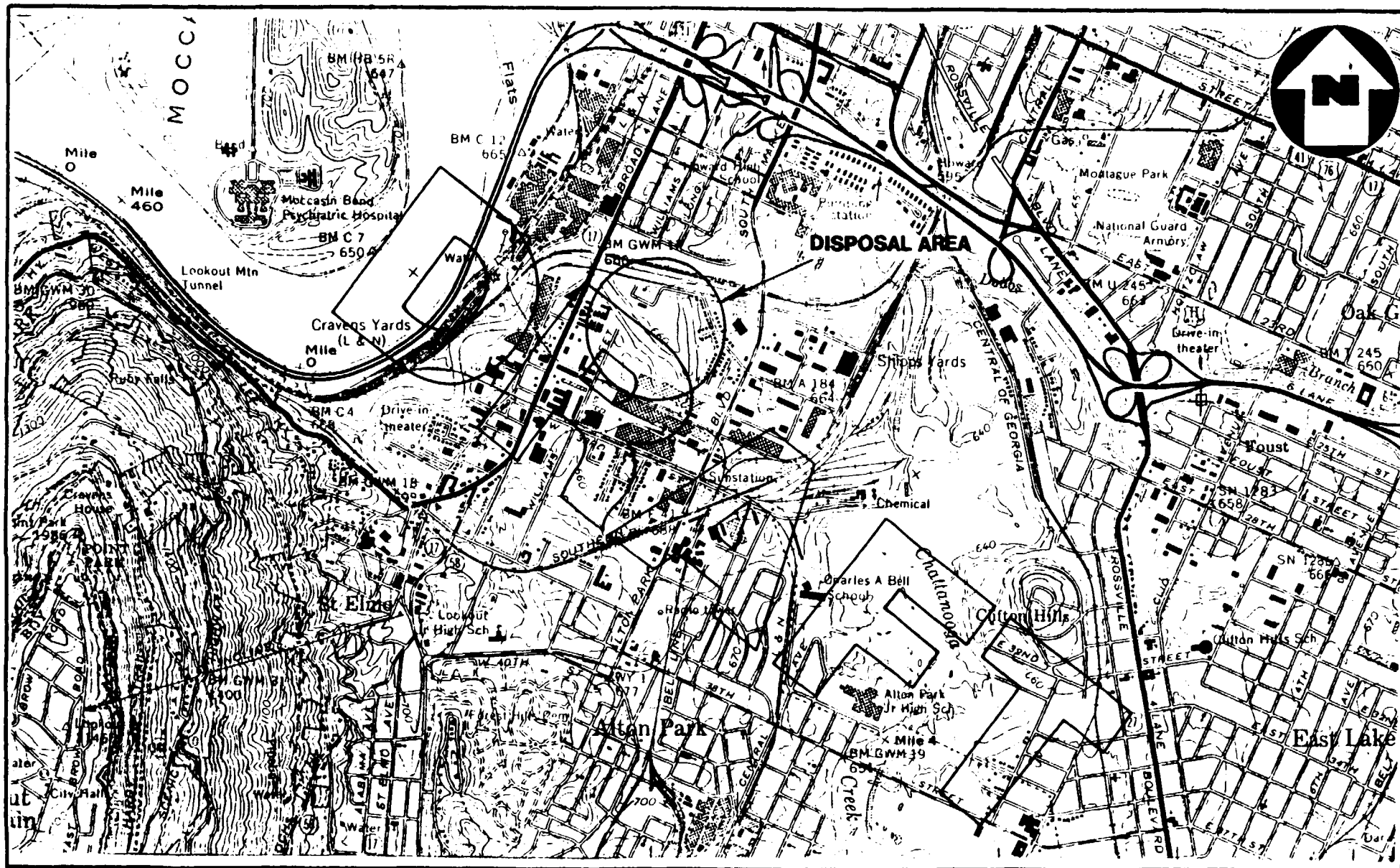
Appendix B includes analytical data for pond sludges and various residual products of the Rockwell facility. Appendix C includes photographs of the disposal areas taken during the inspection. Figure 2 indicates the location and direction of view for each photograph.

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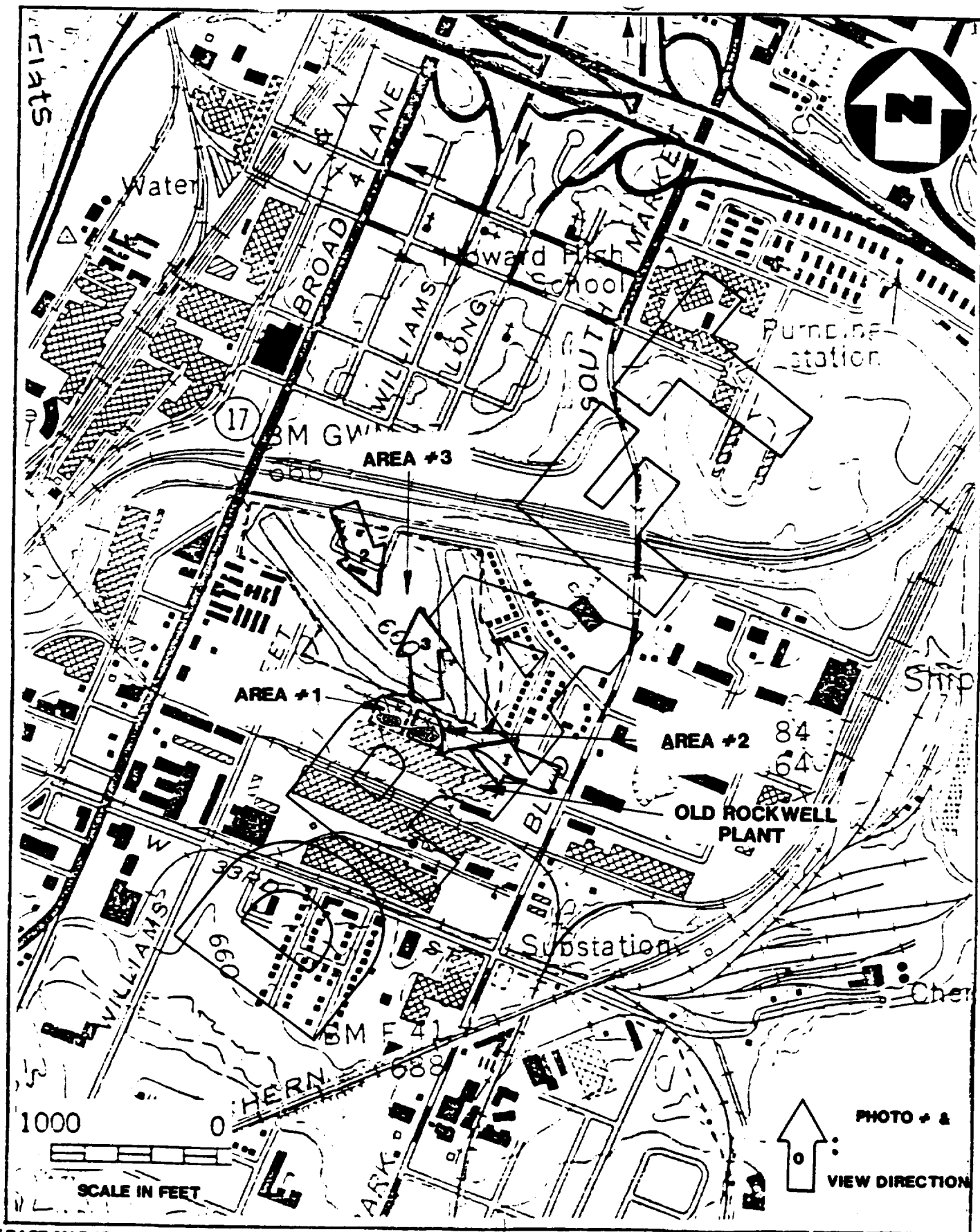
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Appendix B includes analytical data for pond sludges and various residual products of the Rockwell facility. Appendix C includes photographs of the disposal areas taken during the inspection. Figure 2 indicates the location and direction of view for each photograph.



(BASE MAP IS A PORTION OF THE USGS "CHATTANOOGA" QUAD, 7.5' SERIES)
BEASLY, GRADY, WHEELER PROPERTY DUMP
CHATTANOOGA, TN



(BASE MAP IS A PORTION OF THE USGS 'CHATTANOOGA, TN' QUAD,)
BEASLY, GRADY, WHEELER PROPERTY DUMP
CHATTANOOGA, TN

FIGURE 2

**PRIVATE WATER SUPPLY
WELLS IN THE VICINITY
OF BEASLEY, GRADY, WHEELER PROPERTY DUMP
CHATTANOOGA, TENNESSEE**

<u>Well #</u>	<u>Well Depth</u>	<u>Aquifer Depth</u>	<u>Elevation</u>	<u>Depth to Water</u>	<u>Water Level Elevation</u>	<u>Use</u>	<u>Owner</u>	<u>Lat/Long</u>	<u>Year</u>
732	180'	177'	--	--	--	*	11th St. Develop- ment Co. (TVA)	35°02'25" 85°18'00"	1979
102	241'	200'	650'	20'	630'	Unknown	Johnson's Truck Stop	35°01'00" 85°17'30"	1966

* - Reported to be contaminated with oil

NOTE: This is not a complete list of wells. All wells drilled prior to 1963 may not be represented. Further, the current condition/use of the wells listed above is unknown. Well inventory obtained from the State of Tennessee Groundwater Management Office.



REFERENCES

1. Groundwater Resources of East Tennessee; Tennessee Division of Geology, Bulletin 58, Part 1; Nashville, TN 1956.
2. Tennessee's Water Quality and Stream Use Classifications for Interstate and Intrastate Streams; Tennessee Water Quality Control Board, Department of Public Health; Nashville, TN 1983.

DRAFT



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION IV SITE NUMBER (to be assigned by HQ) TND980558548

GENERAL INSTRUCTIONS: Complete Sections I and III through IV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Beasley, Grady and Wheeler Property Dump		B. STREET (or other identifier) 3207 Alton Park Blvd.	
C. CITY Chattanooga	D. STATE TN	E. ZIP CODE 37401	F. COUNTY NAME Hamilton
G. SITE OPERATOR INFORMATION		2. TELEPHONE NUMBER	
1. NAME Wheeland Foundry		615/265-3181	
3. STREET 2800 S. Broad St.	4. CITY Chattanooga	5. STATE TN	6. ZIP CODE 37402
H. REALTY OWNER INFORMATION (if different from operator of site)		2. TELEPHONE NUMBER	
1. NAME			
3. CITY		4. STATE	
		5. ZIP CODE	
I. SITE DESCRIPTION permitted landfill and closed disposal lagoons			
J. TYPE OF OWNERSHIP <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE			

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.) 11-23-83	B. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input checked="" type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE
C. PREPARER INFORMATION	
1. NAME Brad Wallace	2. TELEPHONE NUMBER 404/938-7710
3. DATE (mo., day, & yr.) 11-23-83	

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION		4. TELEPHONE NO. (area code & no.)	
1. NAME Brad Wallace	2. TITLE Environmental Scientist	404/938-7710	
3. ORGANIZATION NUS CORPORATION, Region IV Field Investigation Team (FIT)			
B. INSPECTION PARTICIPANTS			
1. NAME	2. ORGANIZATION	3. TELEPHONE NO.	
Brad Wallace	NUS CORP. Region IV FIT	404/938-7710	
John Smith	NUS CORP. Region IV FIT	404/938-7710	

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Phil Backlund	Rockwell International Manager, Energy & Env. Mgt. 313/435-2705	2135 W. Maple Rd. Troy, Michigan 48084
Gene Blair	Environmental Manager Wheeland Foundry 615/265-3183	2800 Broad St. Chattanooga, TN 37402

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Rockwell International Chattanooga, Plant		No longer in operation	iron & steel foundry wastes
Wheeland Foundry Chattanooga, Plant	615/265-3181	2800 S. Broad St. Chattanooga, TN 37402	foundry slag and sands

E. TRANSPORTER/HAULER INFORMATION			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
7-1-83	1300	<input checked="" type="checkbox"/> 1. PERMISSION <input type="checkbox"/> 2. WARRANT
10-19-89	1300	

J. WEATHER (describe)
cloudy and warm on both dates

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS

☒ a. GROUND ☐ b. AERIAL

2. PHOTOS IN CUSTODY OF:

NUS Region IV FIT

D. SITE MAPPED?

☒ YES. SPECIFY LOCATION OF MAPS:

USGS Chattanooga, TN Quad (7.5' series) NUS Region IV FIT

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

35°0'7.5" N

2. LONGITUDE (deg.-min.-sec.)

85°15'22.5" W

V. SITE INFORMATION

A. SITE STATUS

☒ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)☐ 2. INACTIVE (Those sites which no longer receive wastes.)☐ 3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

☒ 1. NO ☐ 2. YES (specify generator's four-digit SIC Code):

C. AREA OF SITE (in acres)

Approx. 10 acres

D. ARE THERE BUILDINGS ON THE SITE?

☒ 1. NO ☐ 2. YES (specify):

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

A. TRANSPORTER	B. STORER	C. TREATER	D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	<input checked="" type="checkbox"/> 1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	<input checked="" type="checkbox"/> 4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEM./PHYS./TREATMENT	5. MIDNIGHT DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

surface impoundments capped - on Rockwell property
landfill now owned by Wheeland Foundry

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed and attached to this form.

- ☐ 1. STORAGE ☐ 2. INCINERATION ☐ 3. LANDFILL ☐ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL
- ☐ 6. CHEM/BIO/PHYS TREATMENT ☐ 7. LANDFARM ☐ 8. OPEN DUMP ☐ 9. TRANSPORTER ☐ 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

☐ 1. LIQUID ☒ 2. SOLID ☒ 3. SLUDGE ☐ 4. GAS

B. WASTE CHARACTERISTICS

☐ 1. CORROSIVE ☐ 2. IGNITABLE ☐ 3. RADIOACTIVE ☐ 4. HIGHLY VOLATILE

☒ 5. TOXIC ☐ 6. REACTIVE ☒ 7. INERT ☐ 8. FLAMMABLE

☐ 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

NO

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category, mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
unknown				unknown	
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
<input checked="" type="checkbox"/> 1. PAINT PIGMENTS	<input checked="" type="checkbox"/> (1) OILY WASTES	<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS	<input checked="" type="checkbox"/> 1. ACIDS	<input checked="" type="checkbox"/> (1) FLYASH	<input checked="" type="checkbox"/> (1) LABORATORY PHARMACEUT.
<input checked="" type="checkbox"/> 2. METALS SLUDGES	<input checked="" type="checkbox"/> (2) OTHER (specify):	<input checked="" type="checkbox"/> (2) NON-HALOGENATED SOLVENTS	<input checked="" type="checkbox"/> 2. PICKLING LIQUORS	<input checked="" type="checkbox"/> 2. ASBESTOS	<input checked="" type="checkbox"/> 2. HOSPITAL
<input checked="" type="checkbox"/> (3) POTW		<input checked="" type="checkbox"/> (3) OTHER (specify):	<input checked="" type="checkbox"/> 3. CAUSTICS	<input checked="" type="checkbox"/> 3. MILLING/MINE TAILINGS	<input checked="" type="checkbox"/> 3. RADIOACTIVE
<input checked="" type="checkbox"/> 4. ALUMINUM SLUDGE			<input checked="" type="checkbox"/> 4. PESTICIDES	<input checked="" type="checkbox"/> 4. FERROUS SMELTING WASTES	<input checked="" type="checkbox"/> 4. MUNICIPAL
<input checked="" type="checkbox"/> (5) OTHER (specify):			<input checked="" type="checkbox"/> 5. DYES/INKS	<input checked="" type="checkbox"/> 5. NON-FERROUS SMELTING WASTES	<input checked="" type="checkbox"/> (5) OTHER (specify):
			<input checked="" type="checkbox"/> 6. CYANIDE	<input checked="" type="checkbox"/> (6) OTHER (specify):	
			<input checked="" type="checkbox"/> 7. PHENOLS	* Foundry Sands	
			<input checked="" type="checkbox"/> 8. HALOGENS	* slag	
			<input checked="" type="checkbox"/> 9. PCB	* Cupola Scrubber sludge	
			<input checked="" type="checkbox"/> 10. METALS		
			<input checked="" type="checkbox"/> (11) OTHER (specify):		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED	c. LOW	d. NONE			
Cupola Scrubber Sludge	X							N/A	unknown	

VIII. HAZARD DESCRIPTION

FIELD EVALUATION: HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☐ A. HUMAN HEALTH HAZARDS

☐ B. NON-WORKER INJURY/EXPOSURE

☐ C. WORKER INJURY/EXPOSURE

☐ D. CONTAMINATION OF WATER SUPPLY

☐ E. CONTAMINATION OF FOOD CHAIN

☐ F. CONTAMINATION OF GROUND WATER

☐ G. CONTAMINATION OF SURFACE WATER

DRAFT

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA☐ I. FISH KILL☐ J. CONTAMINATION OF AIR☐ K. NOTICEABLE ODORS☐ L. CONTAMINATION OF SOIL☐ M. PROPERTY DAMAGE

☐ N. FIRE OR EXPLOSION☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID☐ P. SEWER, STORM DRAIN PROBLEMS☐ Q. EROSION PROBLEMS

Site is not seeded and subject to erosion.

☐ R. INADEQUATE SECURITY

Site is fenced and not accessible to the general public.

☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☐ U. OTHER (specify)

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS				
2. IN COMMERCIAL OR INDUSTRIAL AREAS	NONE KNOWN TO BE AFFECTED*			
3. IN PUBLICLY TRAVELLED AREAS				
4. PUBLIC USE AREAS (parks, schools, etc.)				

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) unknown	B. DIRECTION OF FLOW unknown	C. GROUNDWATER USE IN VICINITY industrial, domestic
D. POTENTIAL YIELD OF AQUIFER unknown	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 1.5 miles to nearest known well	F. DIRECTION TO DRINKING WATER SUPPLY north by northeast
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY < 15 CONNECTIONS*	<input checked="" type="checkbox"/> 2. COMMUNITY (specify town): Chattanooga, Tennessee	
<input type="checkbox"/> 3. SURFACE WATER	<input checked="" type="checkbox"/> 4. WELL	

* - Population of Chattanooga reported to be 169,565

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
		NONE KNOWN WITHIN 1/4 MILE		

I. RECEIVING WATER

1. NAME

☐ 2. SEWERS☐ 3. STREAMS/RIVERS☐ 4. LAKES/RESERVOIRS☐ 5. OTHER (specify)

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE☐ B. KARST ZONE☐ C. 100 YEAR FLOOD PLAIN☐ D. WETLAND☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND	X	Chickamauga Limestone		
X	2. CLAY				
X	3. GRAVEL				

XIII. SOIL PERMEABILITY

☒ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)☐ D. MODERATE (10 to .1 cm/sec.)☐ E. LOW (.1 to .001 cm/sec.)☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☒ 1. YES☐ 2. NO

3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES☐ 2. NO

3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE

10%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

no single direction

J. OTHER GEOLOGICAL DATA

above geological information from reference literature

Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UN- KNOWN
State Landfill Permit	TN-DPH	I029					X

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☐ YES summarize in this space

unknown

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

DRAFT

APPENDIX A

EPA Notification of Hazardous Waste Site

United States
Environmental Protection
Agency
Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

810609

TNS 000001112

A Person Required to Notify:

Enter the name and address of the person or organization required to notify.

Name Rockwell InternationalStreet 3207 Alton Park Blvd.City ChattanoogaState TNZip Code 37401

B Site Location:

Enter the common name (if known) and actual location of the site.

Name of Site Beasley, Grady, Wheeler Property DumpStreet Alton Park Blvd. & Long StreetCity Chatta.County Hamilton State TNZip Code 37410

C Person to Contact:

Enter the name, title (if applicable), and business telephone number of the person to contact regarding information submitted on this form.

Name (Last, First and Title) McCullough, Michael Env. EngineerPhone 615 / 266-3623 Ext 274

D Dates of Waste Handling:

Enter the years that you estimate waste treatment, storage, or disposal began and ended at the site.

From (Year) 1977 To (Year) 1978

E Waste Type: Choose the option you prefer to complete

Option 1: Select general waste types and source categories. If you do not know the general waste types or sources, you are encouraged to describe the site in Item 1—Description of Site.

General Type of Waste:
Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.

- 1 ☐ Organics
- 2 ☐ Inorganics
- 3 ☐ Solvents
- 4 ☐ Pesticides
- 5 ☐ Heavy metals
- 6 ☐ Acids
- 7 ☐ Bases
- 8 ☐ PCBs
- 9 ☐ Mixed Municipal Waste
- 10 ☐ Unknown
- 11 ☒ Other (Specify)

Cupola Scrubber Sludge

Source of Waste:
Place an X in the appropriate boxes.

- 1 ☐ Mining
- 2 ☐ Construction
- 3 ☐ Textiles
- 4 ☐ Fertilizer
- 5 ☐ Paper, Printing
- 6 ☐ Leather Tanning
- 7 ☒ Iron/Steel Foundry
- 8 ☐ Chemical, General
- 9 ☐ Plating/Polishing
- 10 ☐ Military/Ammunition
- 11 ☐ Electrical Conductors
- 12 ☐ Transformers
- 13 ☐ Utility Companies
- 14 ☐ Sanitary Refuse
- 15 ☐ Photofinish
- 16 ☐ Lin Hospital
- 17 ☐ Unknown
- 18 ☐ Other (Specify)

Option 2: This option is available to persons familiar with the Resource Conservation and Recovery Act (RCRA) Section 3001 regulations (40 CFR Part 261).

Specific Type of Waste:
EPA has assigned a four-digit number to each hazardous waste listed in the regulations under Section 3001 of RCRA. Enter the appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site is located.

DIVISION

CENT

EPA REGION IV

RECEIVED

000142

Notification of Hazardous Waste Site		Side Two
F Waste Quantity	Facility Type	Total Facility Waste Amount
Place an X in the appropriate boxes to indicate the facility types found at the site.	1 <input type="checkbox"/> Piles	Cubic feet <u>Unknown (Minimal to none)</u>
In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.	2 <input type="checkbox"/> Land Treatment	<u> </u>
	3 <input checked="" type="checkbox"/> Landfill	Total Facility Area
	4 <input type="checkbox"/> Tanks	Square feet <u> </u>
	5 <input type="checkbox"/> Impoundment	Acres <u>17.5</u>
	6 <input type="checkbox"/> Underground Injection	
	7 <input type="checkbox"/> Drums, Above Ground	
	8 <input type="checkbox"/> Drums, Below Ground	
	9 <input type="checkbox"/> Other (Specify) <u> </u>	

G Known, Suspected or Likely Releases to the Environment:

Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment

☐ Known ☒ Suspected ☐ Likely ☐ None

Note: Items H and I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so.

H Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.

See attachment

I Description of Site: (Optional)

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

The subject site was primarily leased for waste sand disposal, very little if any cupola scrubber sludge was disposed of in the site. Since then the cupola scrubber has been replaced with a baghouse emission control system and the dust which is being generated is being disposed of at an EPA approved hazardous waste landfill.

J Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person required to notify. If you are not required to notify check "Other."

Name Tony D'Anna, Plant Manager

Street

City

State

Zip Code

Signature T. D'Anna

Date 6-9-81

☐ Owner, Present
☐ Owner, Past
☐ Transporter
☐ Operator, Present
☒ Operator, Past
☐ Other

MANHATTAN, N.Y. (AP) —

LINN ST

DUMP SITE

D-3
BOSLEY

WHEELAND
PHONE 4110

D-2
GRADY

PHASE I

NORTH

EXHIBIT "A"



Automotive Operations
2135 West Maple Road
Troy, Michigan 48064



Rockwell
International

June 1, 1982

Tennessee Department of Public Health
Division of Solid Waste Management
T.E.R.R.A. Building
150 Ninth Avenue North
Nashville, TN 37203

Attention: Mr. Tom Tiesler, Director

Dear Mr. Tiesler:

Your letter of March 30, 1982 requests information on a site that we had identified on the Superfund Notification (EPA Form 8900-1, Notification of Hazardous Waste Site). The additional information requested in your "Report on Potential Hazardous Waste Disposal Facility" is for the most part not available.

Rockwell International operated a Gray Iron Foundry in Chattanooga, Tennessee until February 5, 1982 when the Facility was closed. In June, 1981, when notification of previously used disposal sites was required under CERCLA, we reported an area adjacent to the Foundry where it was believed some cupola scrubber sludge had been dumped in the past. This report was based on the suspicion that cupola scrubber sludge would possibly fail the EP Toxicity Test.

By June, 1981, air emissions from the cupola were controlled by a baghouse filter. Leachate Tests of the baghouse dust showed that it exceeded EP Toxicity limits, and therefore, that material was properly disposed of through Chemical Waste Management in Emelle, Alabama.

To better understand what existed in the dump site adjacent to the Foundry, core samples were taken at several locations and several depths. The samples were subjected to the Leachate Testing procedure and proved to be non-hazardous for all parameters listed under EP Toxicity. A copy of the analytical results is attached.

Beyond what has been described herein, there is little additional information available. Should you have further questions relative to this concern, please contact us.

Sincerely,

P. Backlund, Manager
Energy and Environmental

PB:km

Attachments

cc: R. H. ...

Internal Letter



Rockwell International

Date: . October 6, 1981

No: .

TO: (Name, Organization, Internal Address)

. G. Randolph
. Chattanooga

FROM: (Name, Organization, Internal Address, Phone)

. P. Backlund

. Troy Tech Center

. 8-525-2705

Subject: . CORE SAMPLING

Confirming our discussions of October 1, 1981, we request that core samples be extracted from the dump site described in our Notification of Hazardous Waste Site (Superfund) on June 9, 1981. Three holes will be drilled at locations we discussed during my visit. EP toxicity tests will be run on the leachate from three (3) samples from each hole. It is estimated that the total cost will approximate \$2500.00.

This data will provide some measure of the hazardous nature of the site, and hopefully provide some defense against future litigation after the site is sold.



P. Backlund

PB:km

DRAFT



November 20, 1981

Mr. George Aslinger
Rockwell International
P.O. Box 1151
Chattanooga, TN 37401

Re: Solid Waste Extractions

Dear George:

On November 6, 1981, we received from you nine (9) soil boring samples with the request that each sample be subjected to the EPA EP Toxicity Extraction Test.

The samples were subjected to the EP Toxicity test procedure described in 40 CFR 261.24 and Appendix II of the EPA Hazardous Waste Identification and Listing Regulations. The extracts generated upon performing the extraction procedure were analyzed for the eight heavy metals specified in 40 CFR 261.24, and the results are presented by the enclosed tables.

Section 261.24 of the regulations specifies that a solid waste exhibits the characteristic of EP Toxicity and is thereby hazardous if the extract contains any contaminant at a concentration equal to or greater than the following:

<u>Contaminant</u>	<u>Maximum Concentration, mg/l</u>
Arsenic	5.0
Barium	100.0
Cadmium	1.0
Chromium	5.0
Lead	5.0
Mercury	0.2
Selenium	1.0
Silver	5.0

With reference to the data presented by the enclosed tables, none of the extracts from the nine samples examined had any metals concentrations that exceeded nor even closely approached the maximum concentration limitations specified by the EPA. It should be further noted that the State of Tennessee specifies the same extraction procedure as does the EPA, and also establishes the same maximum concentration levels as does the EPA.

George Aslinger


-2-

November 20, 1981

Resource Consultants is pleased to have been of service to Rockwell in this matter and we appreciate your continued confidence. If you have any questions regarding the data herein presented or the analytical techniques employed, please advise.

Very truly yours,

RESOURCE CONSULTANTS, INC.


V. Wayne McCoy, P.E.
Principal

VWM/jd
enclosures

cc: Mr. Phil Backlund

DRAFT

TABLE 1
EP TOXICITY EXTRACTION TEST RESULTS
ROCKWELL INTERNATIONAL
Chattanooga, Tennessee

RCI Solid Waste No.	20088	20089	20090	20091	20092
Date Collected	11/4/81	11/4/81	11/4/81	11/4/81	11/4/81
Rockwell Boring No.	1	1	1	2	2
Rockwell Sample No.	1	2	3	1	2
Depth, feet	8-10	18-20	28-30	12-13.5	23-25
RCI Extract Sample No.	20097	20098	20099	20100	20101
Extract Analyses, mg/l:					
Arsenic	<0.002	<0.002	<0.002	<0.002	<0.002
Barium	0.71	3.0	<0.1	0.3	0.3
Cadmium	0.04	<0.005	<0.005	<0.005	<0.005
Chromium, total	<0.03	<0.03	<0.03	<0.03	<0.03
Lead	0.3	0.1	<0.1	<0.1	<0.1
Mercury	0.0005	0.0007	0.0002	<0.0002	<0.0002
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005
Silver	<0.01	<0.01	<0.01	<0.01	<0.01

NOTES:

- o All samples received on 11/6/81
- o Extraction Procedure conducted pursuant to 40 CFR 261.24.



J. Wayne McCoy, P.E.
Nov. 20, 1981

TABLE 2
EP TOXICITY EXTRACTION TEST RESULTS
ROCKWELL INTERNATIONAL
Chattanooga, Tennessee

RCI Solid Waste No.	20093	20094	20095	20096
Date Collected	11/4/81	11/4/81	11/4/81	11/4/81
Rockwell Boring No.	2	3	3	3
Rockwell Sample No.	3	1	2	3
Depth, feet	28.5-30	15.5-17.0	25.5-27	28.5-30
RCI Extract Sample No.	20102	20103	20104	20105
Extract Analyses, mg/l:				
Arsenic	<0.002	<0.002	<0.002	<0.002
Barium	3.9	1.0	2.0	0.4
Cadmium	<0.005	0.01	<0.005	<0.005
Chromium total	<0.03	<0.03	<0.03	<0.03
Lead	0.1	<0.1	0.2	<0.1
Mercury	<0.0002	<0.0002	<0.0002	<0.0002
Selenium	<0.005	<0.005	<0.005	<0.005
Silver	<0.01	<0.01	<0.01	<0.01

NOTES:

- o All samples received on 11/6/81
- o Extraction Procedure conducted pursuant to 40 CFR 261.24.

J. Wayne McCoy, P.
Nov. 20, 1981



Automotive Operations
2135 West Maple Road
Troy, Michigan 48064



Rockwell
International

RECEIVED

JUL 13 1983

NUS CORPORATION
REGION 17
SENT TO _____

July 7, 1983

NUS CORPORATION
1726 Montreal Circle
Suite 20
Tucker, GA 30084

Attention: Mr. Brad Wallace

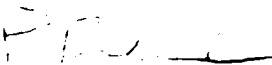
Dear Mr. Wallace:

With reference to your visit to Rockwell International property in Chattanooga, TN on July 1, 1983, I located test boring records in the plant files after you had departed. These records represent core sample drillings made in the suspected dump area in November, 1981. I have previously supplied to you the analytical test results on their samples, that demonstrate that they do not exhibit hazardous characteristics. The test boring records are forwarded to you to complete the history on our testing effort.

If you have additional questions, please feel free to call me.

Sincerely,

ROCKWELL INTERNATIONAL


P. Backlund

lcc

PROJECT Rockwell International - P.O. #CH-024397

FOR Rockwell International, P.O. Box 1151

Chattanooga, TN 37401

ELEVATION _____ DATE 11-4-81 WEATHER Clear

WATER LEVEL 23.1 AT Completion FIELD ENGINEER _____

WATER LEVEL _____ AT _____ DRILLER H. Rogers

WATER LEVEL _____ AT 24 HOURS

Sample No.	Sample Depth Feet		Stratum Depth Feet		Soil Classification	N	W	Q _u	PPR
	From	To	From	To					
1	8.0	10.0	0.0	17.0	Foundry sand slag				
2	18.0	20.0	17.0	27.0	Wet foundry sand, ashes cinders				
3	28.0	30.0	27.0	30.0	Red-yellow clay				

ALL SYMBOLS AND ABBREVIATIONS USED ARE DESCRIBED IN THE STANDARD LEGEND SHEET

REMARKS: Moved hole auger & sampler refusal foundry sand slag iron 8.0
Auger feeding off slag from 12.5 to 14.0
Water encountered = 17.0

TEST BORING RECORD

BORING NO. 1 JOB NO. CS-1840



PROJECT Rockwell International - P.O. #CH-024397

FOR Rockwell International, P.O. Box 1151

Chattanooga, TN 37401

ELEVATION _____ DATE 11-4-81 WEATHER Clear

WATER LEVEL 27.0 AT Completion FIELD ENGINEER _____

WATER LEVEL _____ AT _____ DRILLER H. Rogers

WATER LEVEL _____ AT 24 HOURS

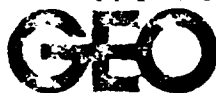
Sample No.	Sample Depth Feet		Stratum Depth Feet		Soil Classification	N	W	Qu	PPR
	From	To	From	To					
			0.0	1.0	Clay				
1	12.0	13.5	1.0	24.0	Foundry sand, cinders				
2	23.0	25.0	24.0	27.0	Red & yellow clay				
3	28.5	30.0	27.0	30.0	Wet foundry sand				

ALL SYMBOLS AND ABBREVIATIONS USED ARE DESCRIBED IN THE STANDARD LEGEND SHEET

REMARKS: Water encountered -27

TEST BORING RECORD

BORING NO. 2 JOB NO. CS-1840



Construction Testing

PROJECT Rockwell International - P.O. #CH-024397

FOR Rockwell International, P.O. Box 1151

Chattanooga, TN 37401

ELEVATION _____ DATE 11-4-81 WEATHER Clear

WATER LEVEL 27.0 AT Completion FIELD ENGINEER _____

WATER LEVEL _____ AT _____ DRILLER H. Rogers

WATER LEVEL _____ AT 24 HOURS

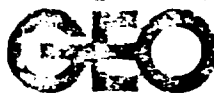
Sample No.	Sample Depth Feet		Stratum Depth Feet		Soil Classification	N	W	Qu	PPR
	From	To	From	To					
			0.0	4.0	Brown silty clay ashes				
1	15.5	17.5	4.0	15.0	Moist foundry sand, clay				
2	25.5	27.0	25.0	27.0	Moist foundry sand, clay				
3	28.5	30.0	27.0	30.0	Wet foundry sand some clay				

SYMBOLS AND ABBREVIATIONS USED ARE DESCRIBED IN THE STANDARD LEGEND SHEET

REMARKS: Water encountered -27.0

TEST BORING RECORD

BORING NO. 3 JOB NO. CS-1840



Construction Testing

DRAFT

APPENDIX B



RECEIVED MAR 26 1982

March 25, 1982

Mr. Tony D'Anna
Plant Manager
Rockwell International
3217 Alton Park Boulevard
Chattanooga, TN 37401

Re: EP Toxicity Results--Pond Sludges

Dear Tony:

I am transmitting to you the test results of subject sample. In accordance with your instructions, I am copying Mr. Karl Landgrebe and Mr. Gene Blair of Wheland.

The test results demonstrate that the material is nonhazardous in all regulatory respects. There is no formal standard for phenol, but it is speculated that the most stringent value would be 1.0 mg/l.

If I can be of further assistance in this matter, please contact me.

Sincerely yours,

RESOURCE CONSULTANTS, INC.

James C. North, P.E.
President

JCN/mb

Enclosures

cc: Mr. Karl Landgrebe, Wheland
Mr. Gene Blair, Wheland

E. P. TOXICITY TEST

Sample No. 20954 Job No. 2657 Client RockwellDate Sampled 3/4/82 Sample Identification Pond Mud Date Received 3/4/82

PHYSICAL APPEARANCE: Solid Homogenous X pH
 Liquid Heterogenous %Solids
 Slurry X Color Black Density

Other: STRUCTURAL INTEGRITY TEST: Results EXTRACT CONDITIONS: EXTRACT NO. 20955Sample Wt. 100 gm. Date Extracted 3/8/82Vol. DI Water 1600 ml (16 x Wt) Appearance of Extract before filtering: Vol. 0.5 HAc 400 ml (4 x Wt) Vol. 0.5 HAc 15 ml (Required) Appearance of Extract after filtering: Vol. DI Water ml (Required) ClearInitial pH 6.3 Final pH 5.0 % HAc 4%Suspension of Solids: GOOD FAIR POORComments:

EXTRACT ANALYSIS

MAX.	ANALYSIS	MAX.	ANALYSIS	OTHER	ANALYSIS
As 5	<0.002	Pb 5	<0.1	Phenol*	0.012
Ba 100	0.2	Hg 0.2	<0.0002		
Cd 1	<0.005	Se 1	<0.005		
Cu 5	<0.03	Ag 5	<0.01		

Checked By: Date: 3/18/82 By: Date:

Phenol extracted from sludge by NaOH <1 mg/kg



April 12, 1982

Mr. Steve Baxter
Division of Solid Waste Management
Tennessee Department of Public Health
Southeast Regional Health Office
2501 Milne Avenue
Chattanooga, TN 37406

Dear Steve:

Enclosed are copies of EP toxicity tests upon the various residuals of Rockwell International as discussed in conference at the plant April 6, 1982.

If you have further questions, do not hesitate to contact me.

Sincerely yours,

RESOURCE CONSULTANTS, INC.

James C. North
James C. North, P.E. *mb*
President

JCN/mb

Enclosures

cc Mr. Tony D'Anna, w/encl.
Mr. Phil Backlund, w/encl. ✓ *MB*

RECEIVED

APR 16 1982

P. BACKLUND

E. P. TOXICITY TEST

Fondly Sand in PondSample No. 20954 Job No. 2657 Client RockwellDate Sampled 3/4/82 Sample Identification Pond Mud Date Received 3/4/82

PHYSICAL APPEARANCE: Solid Homogenous X pH
Liquid Heterogenous %Solids
Slurry X Color Black Density

Other: STRUCTURAL INTEGRITY TEST: Results

EXTRACT CONDITIONS:

EXTRACT NO. 20955Sample Wt. 100 gm. Date Extracted 3/8/82Vol. DI Water 1600 ml (16 x Wt) Appearance of Extract before filtering: Vol. 0.5 HAc 400 ml (4 x Wt) Vol. 0.5 HAc 15 ml (Required) Appearance of Extract after filtering: Vol. DI Water ml (Required) ClearInitial pH 6.3 Final pH 5.0 % HAc 4%Suspension of Solids: GOOD FAIR POORComments:

EXTRACT ANALYSIS

MAX.	ANALYSIS	MAX.	ANALYSIS	OTHER	ANALYSIS
5	<0.002 Pb	5	<0.1	Phenol*	0.012
100	0.2 Hg	0.2	<0.0002		
1	<0.005 Se	1	<0.005		
5	<0.03 Ag	5	<0.01		

Checked By: [Signature] Date: 3/18/82 By: Date:

Phenol extracted from sludge by NaOH <1 mg/kg

TABLE I
SOLID WASTE SAMPLE IDENTIFICATIONS
ROCKWELL INTERNATIONAL
Chattanooga, Tennessee

<u>RCI Solid Waste Number</u>	<u>Sample Description</u>
15637	Dust from shot blast dust cell, northside of plant directly under baghouse discharge, collected by C. Keur
15638	Slag from cupola iron melting operation S.W. end of crane runway, solid waste storage bin, collected by C. Keur
15639	Discarded dry molding sand, S.W. end of crane runway, solid waste storage bin, collected by C. Keur
15640	Sludge generated by sand dust collection equipment, N. side of plant at discharge of drag chain, collected by C. Keur
15641	Foundry core sand, S.W. end of crane runway, solid waste storage bin, collected by C. Keur
15707	Composite of four (4) sludge samples collected from Pond A, collected by RCI

TABLE 2
SOLID WASTE EXTRACT RESULTS
ROCKWELL INTERNATIONAL
Chattanooga, Tennessee

RCI Solid Waste Number	15637	15638	15639	15640	15641	15707
Date Collected	7/8/80	7/8/80	7/8/80	7/8/80	7/8/80	7/8/80
Time Collected	1245	1045	1100	1300	1330	---
RCI Extract Number	15702	15703	15704	15705	15706	15708
Arsenic, mg/l	< 0.01	< 0.002	0.003	0.002	< 0.002	< 0.002
Barium, mg/l	0.14	0.26	0.19	0.05	< 0.05	< 0.05
Cadmium, mg/l	< 0.003	0.01	< 0.003	< 0.003	0.02	< 0.003
Chromium, mg/l	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead, mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mercury, mg/l	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium, mg/l	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005
Silver, mg/l	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Final pH of Extract	5.0	5.0	5.0	5.0	5.0	5.0
% Allowable 0.5 N Acetic Acid Used	53.0	33.0	2.3	5.1	0.8	5.2



May 17, 1982

Mr. Philip Backlund
Manager, Energy & Environmental
Rockwell International
Automotive Operations
2135 West Maple Road
Troy, MI 48084

RECEIVED

MAY 21 1982

P. BACKLUND

Re: Leachate Test - Foundry Core Sand

Dear Phil:

As discussed by telephone on May 12, 1982, I am providing the results of leachate analysis of core sand wastes carried off-site for disposal.

RCI Solid Waste Number	15641
Date Collected	7/8/80
Time Collected	1:30 p.m.
RCI Extract Number	15706
Arsenic, mg/l	< 0.002
Barium, mg/l	< 0.05
Cadmium, mg/l	0.02
Chromium, mg/l	< 0.01
Lead, mg/l	< 0.1
Mercury, mg/l	< 0.0002
Selenium, mg/l	0.006
Silver, mg/l	< 0.01
Final pH of extract	5.0
% allowable 0.5N	
Acetic acid used	0.8

If there is further information required regarding this test, please call.

Sincerely yours,

RESOURCE CONSULTANTS, INC.

James C. North, P.E.
President

JCN/mb

APPENDIX C

DRAFT



Photo #1
Old Rockwell Dump Site
Old Disposal Lagoons
(Area #1 and #2)



Photo #2
Old Rockwell Dump Site
Dump Area #3 (View to South)



Photo #3
Old Rockwell Dump Site
Dump Area #3 (View to North)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
TN D980558548

SITE NAME AND LOCATION

SITE NAME (Legal, common, or descriptive name of site)

Beasley, Grady, Wheeler, Prop Dump

CITY

Chattanooga

Beasley Grady Wheeler Property Dump
Alton PARK & Long Street
Chattanooga, TN

COORDINATES LATITUDE

35 01 10.

LONGITUDE

085 18 55.

DIRECTIONS TO SITE (Starting from nearest public road)

Landfill is owned by three different people:

ACROSS FROM ALTON PARK BLVD ON MAIN CHANNEL OF CHATTANOOGA CREEK.

RESPONSIBLE PARTIES

OWNER (If known)

Rockwell International

02 STREET (Business, mailing, residential)

CITY

Detroit, Michigan

04 STATE 05 ZIP CODE

MI.

06 TELEPHONE NUMBER

(313) 4352705

OPERATOR (If known and different from owner)

TONY SANNA PLANT MGR (PAST)

08 STREET (Business, mailing, residential)

CITY

10 STATE 11 ZIP CODE

12 TELEPHONE NUMBER

()

TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE

☐ B. FEDERAL

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER:

(Specify)

☐ G. UNKNOWN

OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR

☒ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: MONTH DAY YEAR

☐ C. NONE

CHARACTERIZATION OF POTENTIAL HAZARD

ON SITE INSPECTION

☐ YES

DATE

MONTH DAY YEAR

☐ NO

BY (Check all that apply)

☐ A. EPA

☐ B. EPA CONTRACTOR

☐ C. STATE

☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER:

(Specify)

CONTRACTOR NAME(S):

SITE STATUS (Check one)

☐ A. ACTIVE

☒ B. INACTIVE

☐ C. UNKNOWN

03 YEARS OF OPERATION

1977

1979

☐ UNKNOWN

DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Waste is Cupola Scrubber Sludge. The subject site was primarily
17.5 acres leased for waste sand disposal, very little if any cupola scrubber sludge
was disposed of in the site.

DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

located on the west Bank side of Chattanooga Creek.

Any runoff would likely end up in Chattanooga Creek

PRIORITY ASSESSMENT

PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH

(Inspection required promptly)

☐ B. MEDIUM

(Inspection required)

☒ C. LOW

(Inspect on time available basis)

☐ D. NONE

(No further action needed, complete current disposition form)

INFORMATION AVAILABLE FROM

01 CONTACT

Phil Backlund

02 OF (Agency, Organization)

Rockwell International

03 TELEPHONE NUMBER

313 435 2705

04 PERSON RESPONSIBLE FOR ASSESSMENT

Kenneth Spruill

05 AGENCY

SWM

06 ORGANIZATION

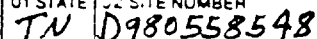
TN Dept H+E

07 TELEPHONE NUMBER

(615) 741-6287

08 DATE

12.14.83
MONTH DAY YEAR



☐ I HIGHLY VOLATILE
☐ J EXPLOSIVE
☐ K REACTIVE
☐ L INCOMPATIBLE
☐ M NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
TN D980558548

HAZARDOUS CONDITIONS AND INCIDENTS

☐ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

☐ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
3 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

TN 09805585

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

01 N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

Some Cupola Scrubber Sludge - mainly Foundry sand.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Rockwell International was notified, (EPA) That They were generators dumping at This Site - This is a ON Site Dump.

V. SOURCES OF INFORMATION (Cite specific references, e. g., site map, station analysis, reports)

Phil Backlund of Rockwell International (Detroit)

